

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/013814

A. CLASSIFICATION OF SUBJECT MATTER
F25B1/00 (2006.01), **F25B29/00** (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F25B1/00 (2006.01), **F25B29/00** (2006.01)Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 3-36474 A (Toshiba Corp.), 18 February, 1991 (18.02.91), Page 2, lower left column, line 13 to page 3, lower right column, line 6; Figs. 1 to 2 & US 5046323 A1 & GB 2235790 A & KR 9307961 B	1-8
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 116668/1990 (Laid-open No. 74257/1992) (Mitsubishi Heavy Industries, Ltd.), 29 June, 1992 (29.06.92), Page 5, line 16 to page 6; line 8; Fig. 1 (Family: none)	1-8

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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- "&" document member of the same patent family

Date of the actual completion of the international search 13 October, 2005 (13.10.05)	Date of mailing of the international search report 25 October, 2005 (25.10.05)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Faxsimile No.	Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 147414/1985 (Laid-open No. 57038/1987) (Mitsubishi Electric Corp.), 09 April, 1987 (09.04.87), Page 9, line 15 to page 10, line 5; Fig. 1 (Family: none)	1-8
Y	JP 62-276368 A (Diesel Kiki Co., Ltd.), 01 December, 1987 (01.12.87), Page 3, lines 12 to 20; Fig. 1 & US 4715196 A1	1-8
Y	JP 2003-240364 A (Denso Corp.), 27 August, 2003 (27.08.03), Par. Nos. [0024] to [0025]; Fig. 1 (Family: none)	3, 4
Y	JP 2003-287291 A (Mitsubishi Electric Corp.), 10 October, 2003 (10.10.03), Par. No. [0002]; Fig. 7 (Family: none)	5, 6